

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. D OR E

REF. CANADIAN STC: SH04-7

REF. FAA STC: SR01997NY

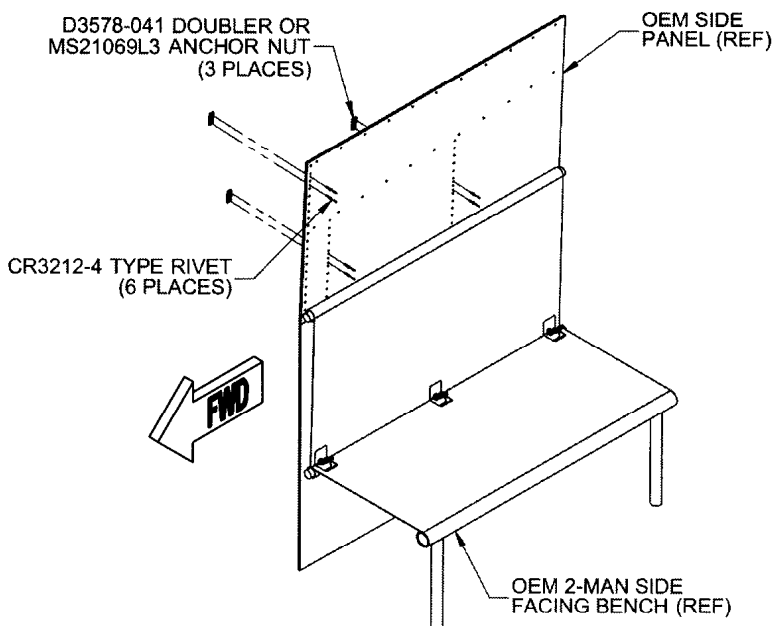
Installation of the Dart D412-702-047A/-047B 4-Man 3-Point Side Facing Shoulder Harness Kits can be modified for compatibility with the following installations by following the procedure provided below:

- Heli-Trade Corp. Installation of new rotor blades and associated hardware, FAA STC SH5132NM (ref. Canadian STC SH91-38) and/or
- Aeronautical Accessories Inc. External Hoist P/N 412-150-100, FAA STC SH3190SO (ref. Canadian STC SH93-14).

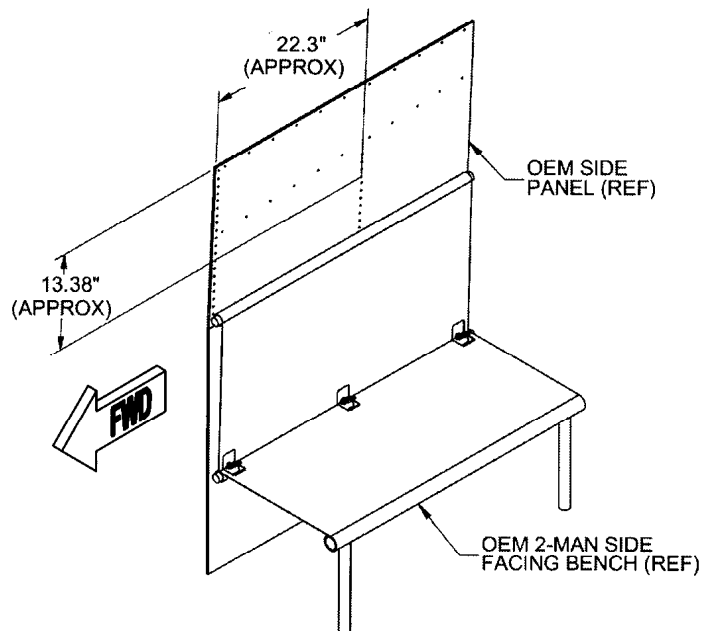
PROCEDURE TO MODIFY THE INSTALLATION

- 1) Install MS21069L3 Anchor Nuts in lieu of the Dart D3578-041 Doublers as required for clearance as shown in Figure 1. Note that the D3578-041 Doublers/MS21069L3 Anchor Nuts for the aft D3571-1 Guides must be located as shown in Figure 2; the other 2 guides and harness assemblies are located per IIN-D412-702.
- 2) Install the D3571-1 Guides and D412-702-XXX Harness Assemblies per IIN-D412-702. The forward-most Harness Assemblies must be installed per Figure 3 using the DSI-9393-011 Harness Spacer Kit. Ensure that the D3677-1 Spacers are flush against the aircraft panel.

Note: For clearance purposes, it is acceptable to shorten the ends of the existing protruding fasteners that interfere with the D3573-7/-8 Adapters. Grind the fasteners as required and leave a minimum of 1.5-2 threads in safety.



**FIGURE 1 – SUBSTITUTION OF
D3578-041 DOUBLERS**
(LH SIDE SHOWN, RH OPPOSITE)



**FIGURE 2 – RELOCATION OF
AFT D3571-1 GUIDE**
(LH SIDE SHOWN, RH OPPOSITE)

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

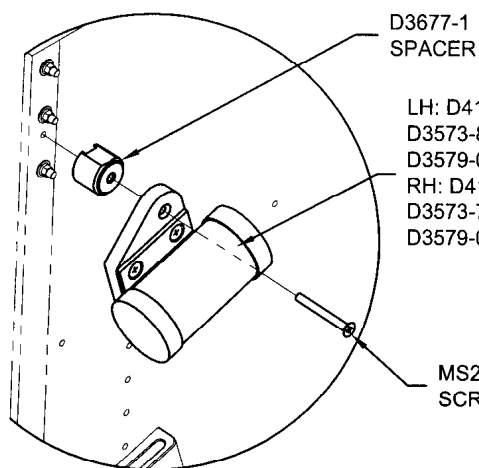
BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 07.10.10

CERT. NO.: SH04-7

ISSUE NO.: 3

A	NEW ISSUE	MB	07.10.10
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>[Signature]</i>		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>[Signature]</i>	DSI 9393	SHEET 1 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	HARNESSE SPACER KIT	NTS
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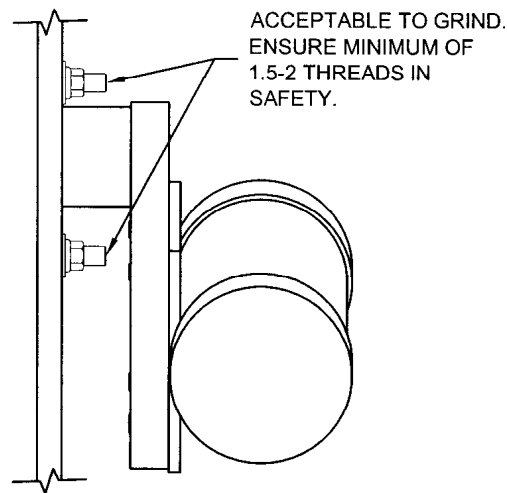
D3677-1
SPACER

LH: D412-702-103A/-103B HARNESS ASSEMBLIES (REF)
D3573-8 ADAPTER (REF)
D3579-041/-045 SHOULDER HARNESS (REF)
RH: D412-702-101A/-101B HARNESS ASSEMBLIES (REF)
D3573-7 ADAPTER (REF)
D3579-042/-046 SHOULDER HARNESS (REF)

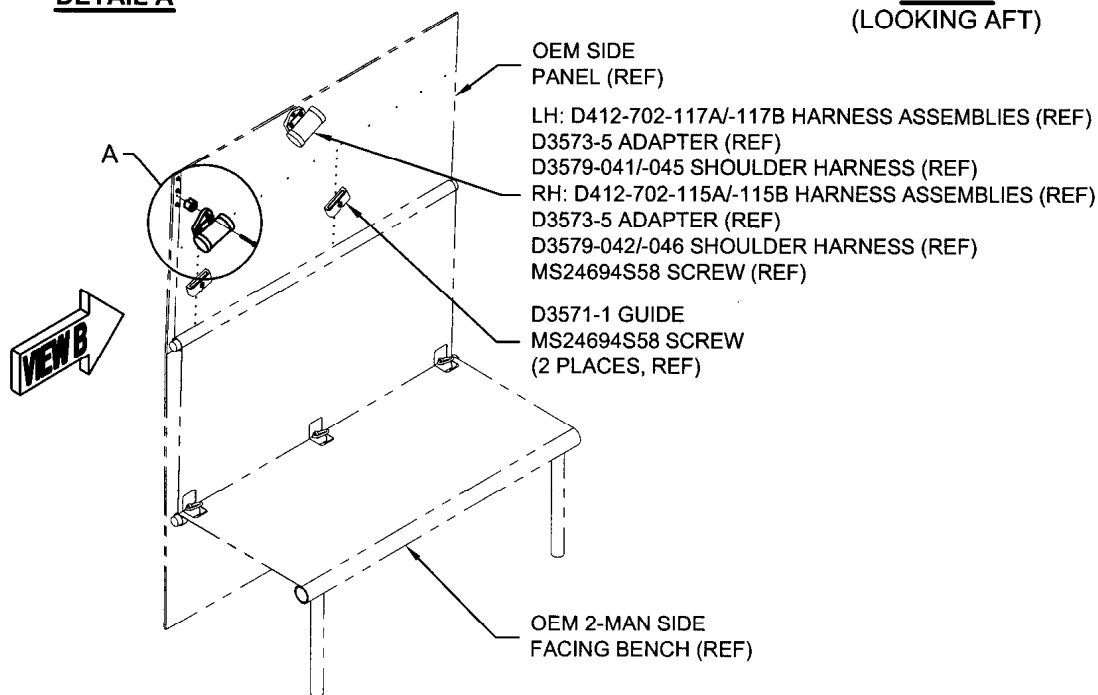
MS24694S282
SCREW*

DETAIL A

*** NOTE:**
IT IS ACCEPTABLE TO
SUBSTITUTE THE
MS24694S282 SCREWS
FOR LONGER OR SHORTER
MS24694SXXX SCREWS AS
REQUIRED TO ENSURE
THE INSTALLATION IS
PROPERLY SECURED.



VIEW B (LOOKING AFT)



OEM SIDE
PANEL (REF)

LH: D412-702-117A/-117B HARNESS ASSEMBLIES (REF)
D3573-5 ADAPTER (REF)
D3579-041/-045 SHOULDER HARNESS (REF)
RH: D412-702-115A/-115B HARNESS ASSEMBLIES (REF)
D3573-5 ADAPTER (REF)
D3579-042/-046 SHOULDER HARNESS (REF)
MS24694S58 SCREW (REF)

D3571-1 GUIDE
MS24694S58 SCREW
(2 PLACES, REF)

OEM 2-MAN SIDE
FACING BENCH (REF)

FIGURE 3 – INSTALLATION OF HARNESS ASSEMBLY
(LH SIDE SHOWN, RH OPPOSITE)

PARTS LIST

QTY -011	PART NUMBER	DESCRIPTION
X	DSI-9393-011	HARNESS SPACER KIT
2	D3677-1	SPACER
6	MS21069L3	ANCHOR NUT (OR EQUIVALENT)
2	MS24694S282	SCREW

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AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)

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DESIGN		DART AEROSPACE LTD
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		DRAWING NO. REV. A
MFG. APPR.		DSI 9393 SHEET 2 OF 2
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